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February 8, 2006
Job No. 1222.01

Edward and Margaret Gilmore
27 Rancheria Road
Kentfield, California 94904

**Subject: 4th Quarter 2005 Monitoring Report
Royal Coach Car Wash, 7360 Commerce Boulevard, Cotati, California
SCDHS-EHD Site #00001357; NCRWQCB Site #1TSO509**

Dear Mr. and Mrs. Gilmore:

This report presents the results of the 4th Quarter 2005 groundwater monitoring event performed at the subject site. The site is approximately located as shown on the attached Site Location Map, Plate 1. The work was performed in general accordance with recommendations made in our January 10, 2005 *Report of Investigation/Additional Monitoring Wells* report and with directives and guidelines outlined in a February 3, 2005 letter from Mr. Dale Radford of the Sonoma County Department of Health Services - Environmental Health Division (SCDHS-EHD).

Monitoring Well Sampling

On December 15, 2005, groundwater samples were collected from the shallow monitoring wells (wells) MW-1 through MW-9, and the deep wells MW-1D, MW-2D, and MW-3D. The approximate location of the wells and general site features are shown on the attached Site Plan/Groundwater Elevation Contour Map, Plate 2. Prior to sampling, static water levels were measured in all wells and each well was checked for the presence of free product using an oil/water interface probe. No free product was reported during this monitoring event. To produce representative groundwater samples prior to sampling, the wells were purged of approximately three well casing volumes using a submersible pump. In addition, indicator parameters such as the temperature, pH, and conductivity were measured and allowed to stabilize during purging. The water level in each well was also allowed to recover to near static levels prior to sampling. Groundwater samples were collected using a separate disposable bailer for each well and transferred into the appropriate containers supplied by the laboratory. The groundwater samples were labeled, stored on ice and transported under Chain-of-Custody documentation to Analytical Sciences of Petaluma, California. Analytical Sciences is a State-certified laboratory for the analyses requested. Purge water generated during the sampling of the wells was stored onsite in a 300 gallon plastic water tank secured with a locking lid and labeled with non-hazardous waste designations, pending disposal. The Groundwater Field Sampling Forms are attached in Appendix A.

Water Level Measurements

The monitoring well top-of-casing (TOC) elevations, depths to groundwater, the groundwater elevations, and the calculated groundwater flow directions and gradients for the December 15, 2005 sampling event are tabulated in Table 1a and 1b. Elevations are expressed in feet relative to mean sea level (msl), depths are expressed in feet and gradients are expressed in feet per foot. Historical groundwater flow direction and gradient data for the shallow wells is presented in Appendix B. Historical groundwater flow direction and gradient data for the deep wells is presented in Appendix C.

Table 1a: Groundwater Flow Direction and Gradient Data - Shallow Wells

Date	Monitoring Well ID	TOC Elevation (feet - msl)	Depth to Groundwater (feet)	Water Level Elevation (feet - msl)	Groundwater Flow Direction & Gradient (i)
12/15/05	MW-1	99.52	9.26	90.26	Northwesterly i = 0.01
	MW-2	99.39	9.05	90.34	
	MW-3	99.18	8.06	91.12	
	MW-4	98.79	9.16	89.63	
	MW-5	99.16	9.68	89.48	
	MW-6	99.42	9.75	89.67	
	MW-7	98.86	8.85	90.01	
	MW-8	99.09	10.67	88.42	
	MW-9	99.42	9.42	90.00	

Table 1b: Groundwater Flow Direction and Gradient Data - Deep Wells

Date	Monitoring Well ID	TOC Elevation (feet - msl)	Depth to Groundwater (feet)	Water Level Elevation (feet - msl)	Groundwater Flow Direction & Gradient (i)
12/15/05	MW-1D	99.11	11.84	87.27	N 75° W i = 0.02
	MW-2D	98.45	11.21	87.24	
	MW-3D	98.89	13.01	85.88	

Groundwater elevation contours based on MW-1 through MW-9 for the December 15, 2005 monitoring event are attached on Plate 2. Groundwater elevation contours based on MW-1D through MW-3D for the December 15, 2005 monitoring event are shown on the attached Site Plan/Groundwater Elevation Contour Map - Deep Wells, Plate 3.



Laboratory Analysis

Groundwater samples collected from the monitoring wells were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA Test Method 8015. The volatile organic compounds: benzene, toluene, ethylbenzene, and total xylenes (BTEX), the additional oxygenated gasoline additives; methyl tert-butyl ether (MtBE), tert-butyl alcohol (TBA), tert-amyl methyl ether (TAME), di-isopropyl ether (DIPE), and ethyl tert-butyl ether (ETBE), and lead scavengers were analyzed using EPA Test Method 8260B. The laboratory analytical results for the December 15, 2005 sampling event are tabulated on Table 2a and 2b. The Analytical Sciences laboratory report including the chain-of-custody documentation is attached in Appendix D. Historical groundwater analytical data for the shallow wells is presented in Appendix E. Historical groundwater analytical data for the deep wells is presented in Appendix F. Time vs. Concentration Graphs that plot contaminant concentrations over time for the shallow wells MW-1, MW-4, MW-7, and MW-8 are enclosed in Appendix G.

Table 2a: Groundwater Analytical Results - Shallow Wells

Date	Well ID	TPH-g	B	T	E	X	MtBE	TBA	TAME
		$\mu\text{g/L}$							
12/15/05	MW-1	4,700	670	<10	170	<10	170	<250	37
	MW-2	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-3	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-4	5,400	71	<10	490	46	89	930	24
	MW-5	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-6	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-7	43,000	7,000	6,300	3,400	6,500	<100	<2,500	<100
	MW-8	71*	31	<1.0	<1.0	<1.0	58	<25	8.2
	MW-9	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0

< = Indicates the laboratory test method detection limit.

* = TPH as gasoline result consists primarily of MtBE.

Note: Additional oxygenated fuel additives and lead scavengers not detected above the laboratory reporting limit.

Table 2b: Groundwater Analytical Results - Deep Wells

Date	Well ID	TPH-g	B	T	E	X	MtBE	TBA	TAME
		$\mu\text{g/L}$							
12/15/05	MW-1D	<50	<1.0	<1.0	<1.0	<1.0	22	<25	1.9
	MW-2D	<50	<1.0	<1.0	<1.0	<1.0	2.1	<25	<1.0
	MW-3D	<50	<1.0	<1.0	<1.0	<1.0	3.9	<25	<1.0

< = Indicates the laboratory test method detection limit.

Note: Additional oxygenated fuel additives and lead scavengers not detected above the laboratory reporting limit.



Discussion

Groundwater contaminant concentrations observed in shallow wells MW-1 through MW-9 and deep wells MW-1D through MW-3D appear to be relatively consistent with historical results. TPH as gasoline was detected in groundwater samples collected from MW-1, MW-4, MW-7, and MW-8 at concentrations of 4,700 µg/L, 5,400 µg/L, 43,000 µg/L and 71 µg/L respectively. However, the laboratory noted that the TPH as gasoline results for the samples collected from MW-8 consist primarily of MtBE. BTEX constituents were detected in samples collected from MW-1, MW-4, and MW-7 with benzene occurring at a maximum concentration of 7,000 µg/L in MW-7. In addition, MtBE was detected in samples collected from MW-1, MW-4, MW-8, MW-1D, MW-2D, and MW-3D at concentrations of 170µg/L, 89 µg/L, 58 µg/L, 22µg/L, 2.1µg/L, and 3.9µg/L respectively. The oxygenated gasoline additive TBA was detected in the samples collected from MW-4 at a concentration of 930µg/L. The oxygenated gasoline additive TAME was detected in the samples collected from MW-1, MW-4, MW-8, and MW-1D at concentrations of 37µg/L, 24 µg/L, 8.2 µg/L, and 1.9 µg/L, respectively. Samples collected from wells MW-2, MW-3, MW-5, MW-6, and MW-9 were below the laboratory test method detection limits for the analyses performed. Samples collected from wells MW-1D through MW-3D were below the laboratory test method detection limits for the analyses for TPH as gasoline and the BTEX constituents.

The next sampling event is scheduled for March 2006 and will include the shallow wells MW-1, MW-4, MW-7, MW-8, and deep wells MW-1D, MW-2D, and MW-3D.

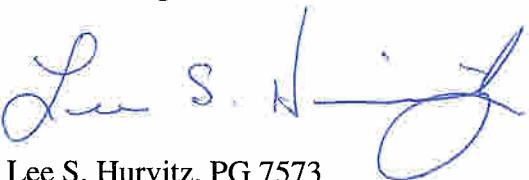


We appreciate the opportunity to be of service to you and trust that this provides the information you require at this time. If you have any questions or require any additional information, please feel free to contact us at (707) 575-8622 or www.transtechconsultants.com.

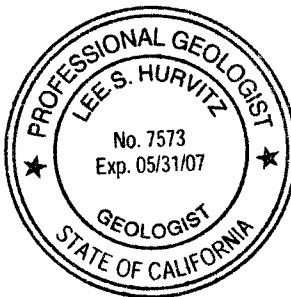
Sincerely,
TRANS TECH CONSULTANTS



Brian R. Hasik
Staff Geologist



Lee S. Hurvitz, PG 7573
Senior Geologist

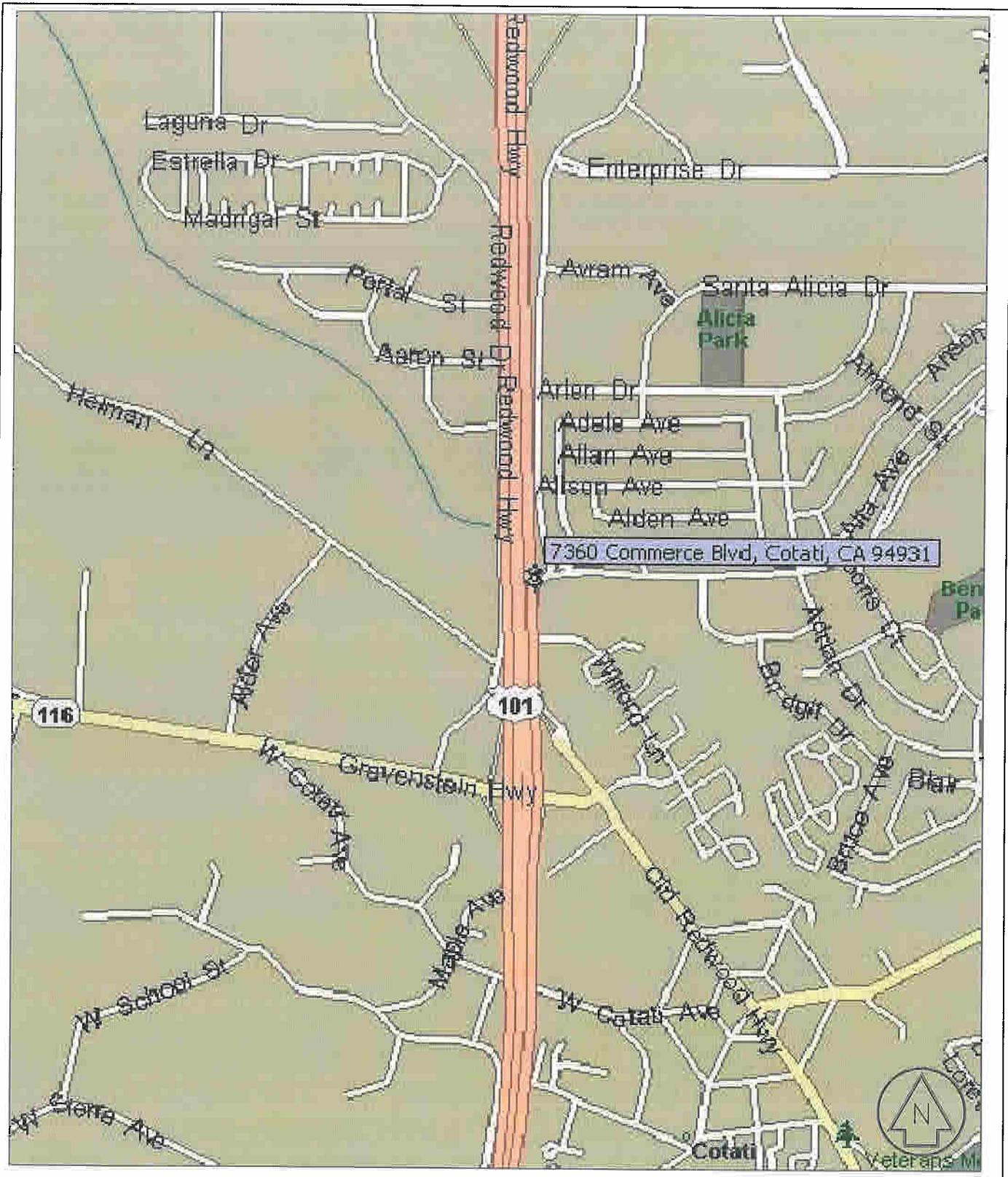


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Attachments:

- Plate 1, Site Location Map, Plate 1
- Plate 2, Site Plan / Groundwater Elevation Contour Map - Shallow Wells
- Plate 3, Site Plan / Groundwater Elevation Contour Map - Deep Wells
- Appendix A, Groundwater Field Sampling Forms
- Appendix B, Historical Groundwater Flow Direction and Gradient Data - Shallow Wells
- Appendix C, Historical Groundwater Flow Direction and Gradient Data - Deep Wells
- Appendix D, Analytical Sciences Laboratory Report dated December 30, 2005
- Appendix E, Historical Groundwater Analytical Data - Shallow Wells
- Appendix F, Historical Groundwater Analytical Data - Deep Wells
- Appendix G, Time Vs. Concentration Graphs MW-1, MW-4, MW-7, MW-8
- Distribution List





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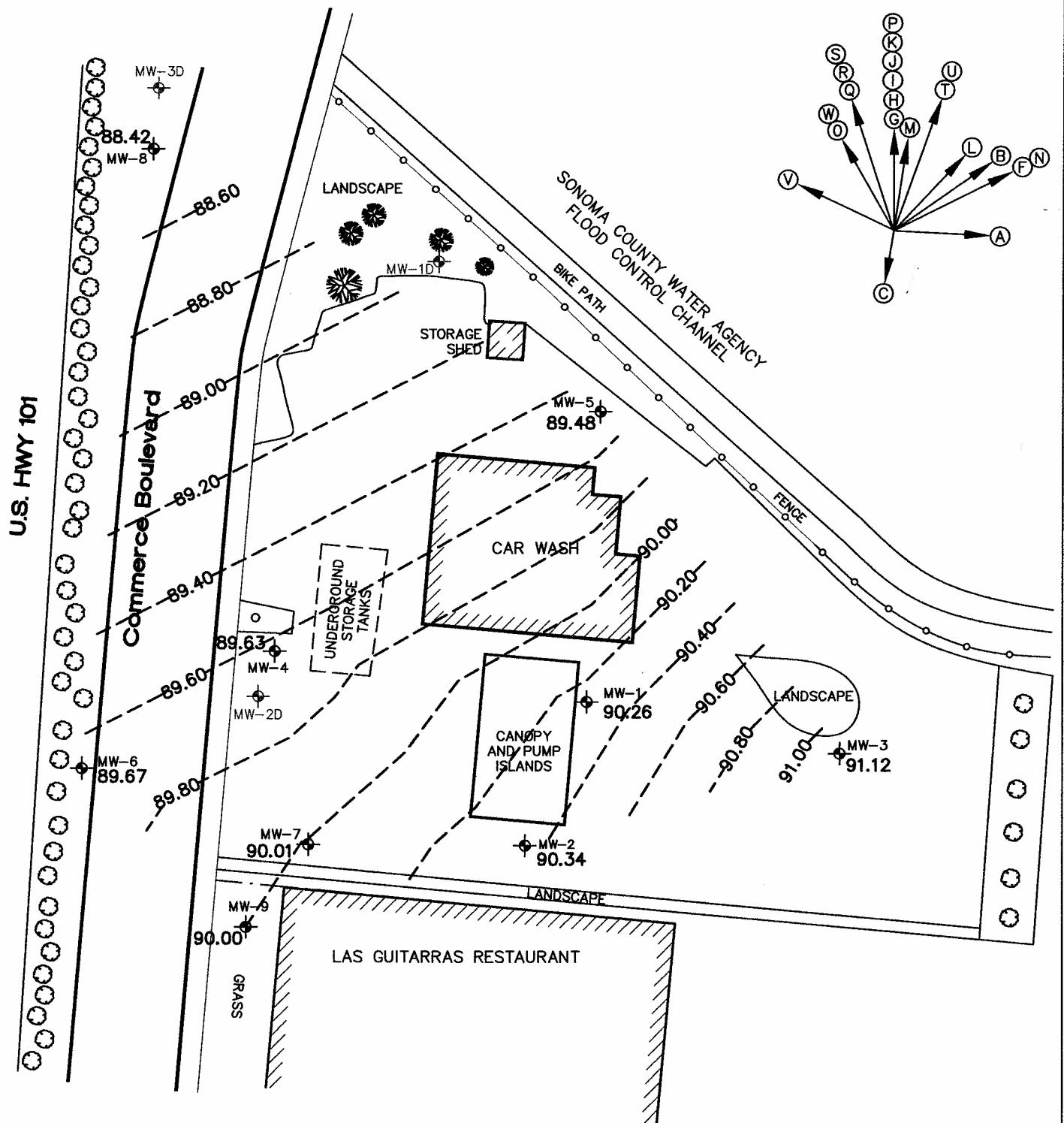
SITE LOCATION MAP

ROYAL COACH CARWASH
7360 COMMERCE BLVD.
COTATI, CALIFORNIA

PLATE:

1

DRAWN BY: PSC	DWG NAME: 1222.01 SLM	APPR. BY: BCW	JOB NUMBER: 1222.01	W.O. NUMBER: A-340	REVISIONS:	DATE: 12/15/03
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MONITORING WELL LOCATION

0 20' 40'
Bar Scale ±



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**SITE PLAN / GROUNDWATER ELEVATION CONTOUR MAP
FOR 12/15/05 SHALLOW WELLS**

ROYAL COACH CAR WASH
7360 COMMERCE BLVD.
COTATI, CALIFORNIA

**PLATE:
2**

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:	
PSC	1222.01 GWFP	BRH	1222.01	A-894		1/16/06	SHEET: 1 OF 2

GROUNDWATER FLOW LEGEND

Estimated Groundwater Flow Direction		Gradient Contour (Interval = 0.20 ft)	Identifier Tag	Date	Est. Flow Direction	Gradient Slope
→	A	— — — —	(W)	12/15/05	NORTH WESTERLY	i=0.01
Identifier Tag	Date	Est. Flow Direction	Gradient Slope			
(A)	6/26/01	S85°E	i=0.01			
(B)	7/31/01	N60°E	i=0.01			
(C)	8/23/01	S10°W	i=0.02			
(D)	9/24/01	VARIES				
(E)	10/24/01	VARIES				
(F)	11/19/01	N65°E	i=0.03			
(G)	12/21/01	NORTH	i=0.03			
(H)	1/23/02	NORTH	i=0.02			
(I)	3/27/02	NORTHERLY	i=0.02			
(J)	6/28/02	NORTHERLY	i=0.02			
(K)	10/3/02	NORTHERLY	i=0.01			
(L)	2/7/03	N45°E	i=0.01			
(M)	5/7/03	NORTHERLY	i=0.02			
(N)	8/14/03	NORTH EASTERLY	i=0.03			
(O)	11/18/03	NORTH WESTERLY	i=VARIES			
(P)	2/24/04	NORTHERLY	i=0.02			
(Q)	5/26/04	NORTH WESTERLY	i=0.01			
(R)	8/11/04	NORTH WESTERLY	i=0.01			
(S)	11/17/04	NORTH WESTERLY	i=0.01			
(T)	2/17/05	NORTH EASTERLY	i=0.02			
(U)	5/25/05	NORTH EASTERLY	i=0.02			
(V)	8/31/05	NORTH WESTERLY	i=0.007			



MW-1 Monitoring Well Location
[XX.XX] Groundwater Elevation

NOTE: Ground water elevations are in feet above mean sea level (National Geodetic Vertical Datum, 1929).



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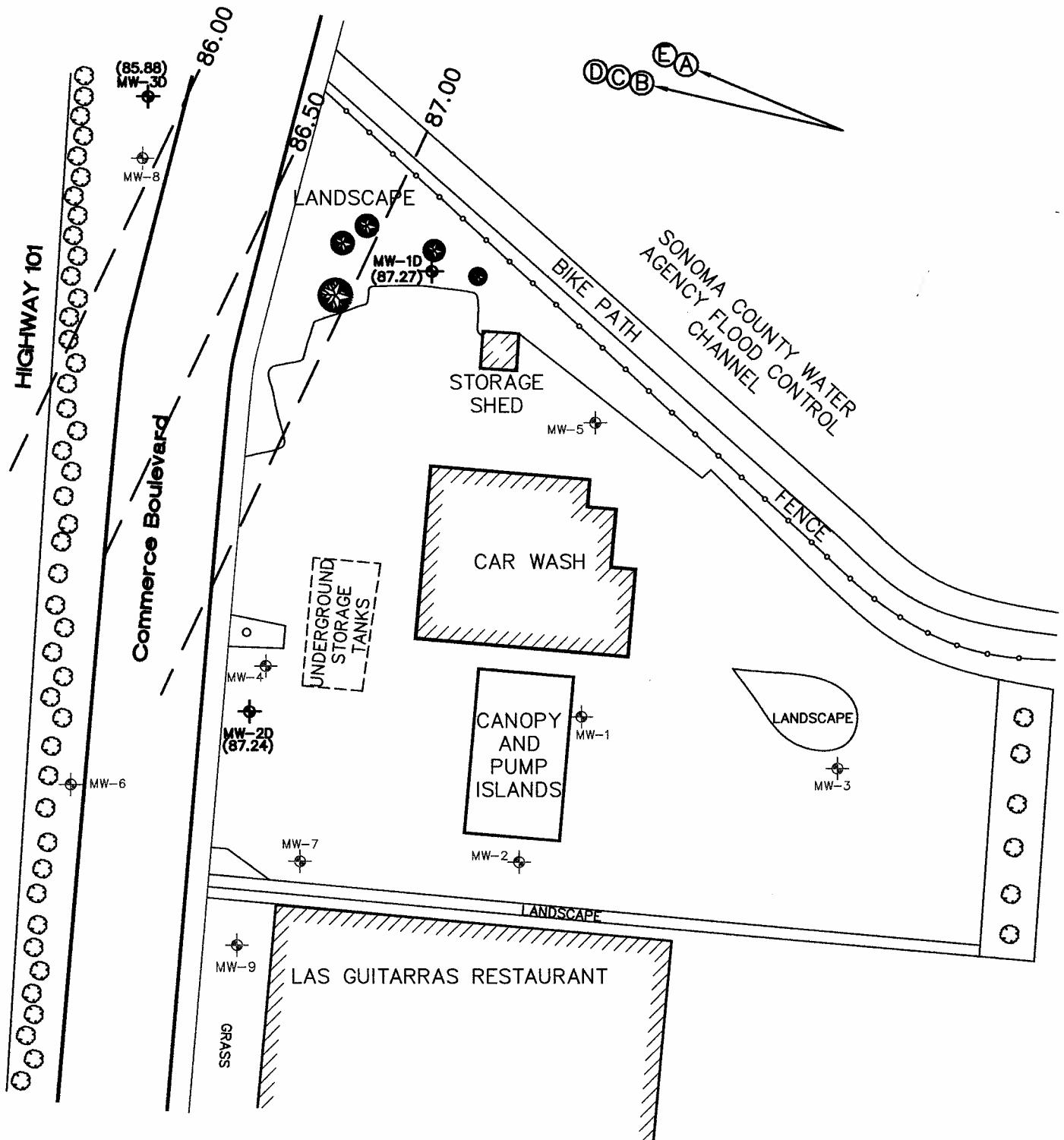
SITE PLAN / GROUNDWATER ELEVATION CONTOUR MAP FOR 12/15/05 SHALLOW WELLS

ROYAL COACH CAR WASH
7360 COMMERCE BLVD.
COTATI, CALIFORNIA

PLATE:

2

DRAWN BY: PSC	DWG NAME: 1222.01 GWFP	APPR. BY: BRH	JOB NUMBER: 1222.01	W.O. NUMBER: A-894	REVISIONS:	DATE: 1/16/06	SHEET: 2 OF 2
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MONITORING WELL LOCATION

SOIL BORING LOCATION

CPT LOCATION

0 20' 40'
Bar Scale ±



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SITE PLAN / GROUNDWATER ELEVATION CONTOUR MAP
FOR 12/15/05 DEEP WELLS

ROYAL COACH CAR WASH
7360 COMMERCE BLVD.
COTATI, CALIFORNIA

PLATE:
3

DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE:
JLP	1222.01 GWFP	BRH	1222.01	A-894		1/16/06

SHEET 1 OF 2

GROUNDWATER FLOW LEGEND



MW-1 Monitoring Well Location
[XX.XX] Groundwater Elevation

NOTE: Ground water elevations are in feet above mean sea level (National Geodetic Vertical Datum, 1929).



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SITE PLAN / GROUNDWATER ELEVATION CONTOUR MAP
FOR 12/15/05 DEEP WELLS

ROYAL COACH CAR WASH
7360 COMMERCE BLVD.
COTATI, CALIFORNIA

PLATE:
3

930 SHILOH RD., BLDG 44, SUITE J WINDSOR, CA 95492 PHONE: 707-575-8622 FAX: 707-837-7334			ROYAL COACH CAR WASH 7360 COMMERCE BLVD. COTATI, CALIFORNIA			PLATE: 3
DRAWN BY:	DWG NAME:	APPR. BY:	JOB NUMBER:	W.O. NUMBER:	REVISIONS:	DATE: 1/16/06
JLP	1222.01 GWFP	BRH	1222.01	A-894		SHEET 2 OF 2

APPENDIX A

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-1
Project Location: 7360 Commerce Blvd. Cotati, California	Casing Diameter: 2"	Well Depth from TOC (BP): 22 - 00 Well Depth from TOC (AP):
Date: December 15, 2005	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>(Signature)</i>	Product Thickness in inches: &	
	Water Level from TOC: 9.31	Time: 9:28
	Water Level pre-purge: 9.26	Time: 1:04
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	Well EL (TOC): Well Mat: PVC

WEATHER

Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No	Precipitation in last 5 days: Yes / No
Rain: Yes / No	Fog: Yes / No		

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

$$(\frac{\text{TD}}{\text{WL}} \times (\frac{\text{WL}}{\text{Dia. Inches}})^2 \times 0.0408 = 2.04 \text{ gallons in one well volume}$$

6-12 gallons in 3 well volumes (Approx. 0.6 gal/ft) *7* total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection: <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
1:07	1	6.73	19.3	-53		1209	L
1:08	2	6.68	19.8	-46		1137	L
1:09	4	6.68	20.1	-49		1173	L
1:12	7	6.69	20.2	-48		1212	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: *10.41* Time: *3:48*

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: *Poly* Soil: *&* Other: *&*

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-2
Project Location: 7360 Commerce Blvd. Cotati, California		Casing Diameter: 2"
		Well Depth from TOC (BP): 22 - 00 Well Depth from TOC (AP):
Date: December 15, 2005		Top of Screen: Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>(Signature)</i>		Product Thickness in inches: <i>0</i>
		Water Level from TOC: <i>9.24</i> Time: <i>9:15</i>
Notes:		Water Level pre-purge: <i>9.05</i> Time: <i>10:52</i>
		Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:
		Well EL (TOC): Well Mat: PVC

WEATHER

Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No	Precipitation in last 5 days: Yes / No
Rain: Yes / No	Fog: Yes / No		

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

$$(\frac{\text{TD}}{\text{WL}} \times (\frac{\text{WL}}{\text{Dia. Inches}})^2 \times 0.0408 = 2.07 \text{ gallons in one well volume}$$

6.22 gallons in 3 well volumes (Approx. 0.6 gal/ft) *7* total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection: <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
11:02	1	7.18	18.6	-10		684.3	L
11:03	2	7.02	18.7	8		698.7	L
11:05	4	6.99	18.9	14		683.8	L
11:07	7	7.04	19.1	11		723.1	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: *9.30* Time: *2:50*

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: *Poly* Soil: *8* Other: *8*

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-3
Project Location: 7360 Commerce Blvd. Cotati, California		Casing Diameter: 2"
		Well Depth from TOC (BP): 21.00 Well Depth from TOC (AP):
Date: December 15, 2005		Top of Screen: Initial Well Depth:
Sampled by (print and sign): Brian Hasik 		Product Thickness in inches: 8
		Water Level from TOC: 8.20 Time: 9:17
Notes:		Water Level pre-purge: 8.06 Time: 11:01
		Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:
		Well EL (TOC): Well Mat: PVC

WEATHER

Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No	Precipitation in last 5 days: Yes / No
Rain: Yes / No	Fog: Yes / No		

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

(TD	- WL	X Dia. Inches	2 X 0.0408 = 2.20 gallons in one well volume
6.60			7 gallons in 3 well volumes (Approx. 0.6 gal/ft) total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
10:44	1	6.85	20.0	42		1008	L
11:15	2	6.81	20.9	53		997.3	L
11:17	4	6.78	21.1	273		993.2	L
11:19	7	6.79	20.9	318		1004	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 8.35 Time: 3:00

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: poly Soil: 8 Other:

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-4
Project Location: 7360 Commerce Blvd. Cotati, California	Casing Diameter: 2"	Well Depth from TOC (BP): 19.90 Well Depth from TOC (AP):
Date: December 15, 2005	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>Brian Hasik</i>	Product Thickness in inches: <input checked="" type="checkbox"/>	
	Water Level from TOC: 9.23	Time: 9:27
Notes: He odor	Water Level pre-purge: 9.16	Time: 12:54
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	Well EL (TOC): Well Mat: PVC

WEATHER

Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No	Precipitation in last 5 days: Yes / No
Rain: Yes / No	Fog: Yes / No		

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

(TD	-	WL	X (2	X 0.0408 = 1.72	gallons in one well volume
5.16			Dia. Inches			
					6	total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
12:54	1	6.85	20.1	-123		916.2	L
12:57	2	6.85	20.6	-126		914.9	L
12:59	4	6.87	20.8	-125		764.6	L
1:01	6	6.86	20.9	-127		777.0	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 10:56 Time: 3:33

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: poly Soil: 8 Other: 8

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-5
Project Location: 7360 Commerce Blvd. Cotati, California	Casing Diameter: 2"	Well Depth from TOC (BP): 21-80 Well Depth from TOC (AP):
Date: December 15, 2005	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>(Signature)</i>	Product Thickness in inches: 8	
	Water Level from TOC: 9-69	Time: 9:18
Notes: Strong Sulphur odor	Water Level pre-purge: 9-68	Time: 11:24
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	Well EL (TOC): Well Mat: PVC

WEATHER

Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No	Precipitation in last 5 days: Yes / No
Rain: Yes / No	Fog: Yes / No		

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

$$(\frac{\text{TD}}{\text{WL}} - \frac{\text{WL}}{\text{WL}}) \times (\frac{\text{WL}}{2}) \times 0.0408 = 1.94 \text{ gallons in one well volume}$$

5.82 gallons in 3 well volumes (Approx. 0.6 gal/ft) **6** total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
11:26	1	7.01	18.9	171		1526	L
11:27	2	6.99	19.0	-7		1514	L
11:29	4	6.95	18.9	-78		1521	L
11:31	6	6.99	19.2	-68		1526	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: **10.10** Time: **3:05**

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: **poly** Soil: **B** Other: **B**

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-6
Project Location: 7360 Commerce Blvd. Cotati, California		Casing Diameter: 2"
		Well Depth from TOC (BP): 20.50 Well Depth from TOC (AP):
Date: December 15, 2005		Top of Screen: Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>Brian</i>		Product Thickness in inches: 0
		Water Level from TOC: 9.80 Time: 9:20
Notes:		Water Level pre-purge: 9.75 Time: 11:40
		Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:
		Well EL (TOC): Well Mat: PVC

WEATHER

Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No	Precipitation in last 5 days: Yes / No
Rain: Yes / No	Fog: Yes / No		

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

(**TD**) - (**WL**) X (**2**) X **0.0408** = **1.72** gallons in one well volume

5.16 gallons in 3 well volumes (Approx. 0.6 gal/ft) **6** total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
11:46	1	7.15	19.5	-21		910.3	L
11:46	2	7.07	20.1	-1		889.8	L
11:48	4	7.06	20.3	23		902.5	L
11:50	6	7.06	20.4	32		998.4	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: **10.22** Time: **3:15**

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: **Poly** Soil: **0** Other: **0**

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-7
Project Location: 7360 Commerce Blvd. Cotati, California	Casing Diameter: 2"	Well Depth from TOC (BP): 20.00 Well Depth from TOC (AP):
Date: December 15, 2005	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>Brian</i>	Product Thickness in inches: 8	
	Water Level from TOC: 8.80	Time: 9:30
Notes: VERY STRONG ODOR	Water Level pre-purge: 8.85	Time: 1:17
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	Well Mat: PVC
WEATHER		
Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No
Rain: Yes / No	Fog: Yes / No	Precipitation in last 5 days: Yes / No

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

(TD - WL) X (2) X 0.0408 = 1.48 gallons in one well volume
5.35 Dia. Inches 6 gallons in 3 well volumes (Approx. 0.6 gal/ft) total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
1:21	1	6.77	18.7	-53		1047	L
1:21	2	6.74	18.7	-55		1045	L
1:23	4	6.75	18.9	-64		1057	L
1:25	6	6.80	19.1	-71		1067	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 7.81 Time: 8:15

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: poly Soil: 8 Other: 8

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-8
Project Location: 7360 Commerce Blvd. Cotati, California	Casing Diameter: 2"	Well Depth from TOC (BP): 30-25 Well Depth from TOC (AP):
Date: December 15, 2005	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>Brian Hasik</i>	Product Thickness in inches: 8	
	Water Level from TOC: 10.00 Time: 9:26	
Notes:	Water Level pre-purge: 10.67 Time: 12:35	
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	
	Well EL (TOC): Well Mat: PVC	

WEATHER

Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No	Precipitation in last 5 days: Yes / No
Rain: Yes / No	Fog: Yes / No		

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

(TD 9.40)	X	(WL 2)	X	0.0408 =	3.13	gallons in one well volume
		Dia. Inches			10	
						gallons in 3 well volumes (Approx. 0.6 gal/ft)
						total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
12:42	1	6.87	17.1	77		999.2	L
12:43	2	6.87	18.2	82		971.7	L
12:45	4	6.84	18.6	90		990.1	L
12:47	6	6.84	18.6	95		999.2	L
12:48	8	6.86	18.6	99		1002	L
12:50	10	6.88	18.7	99		1002	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 11.44	Time: 8:30
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Appearance of Sample:

Bailer: Disposable	Pump: 12V Submersible (1-2 gpm)
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DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: Poly	Soil: 8	Other: 8
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GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-9
Project Location: 7360 Commerce Blvd. Cotati, California		Casing Diameter: 2"
		Well Depth from TOC (BP): 22.00 Well Depth from TOC (AP):
Date: December 15, 2005		Top of Screen: Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>(Signature)</i>		Product Thickness in inches: 8
		Water Level from TOC: 9-19 Time: 9:23
Notes:		Water Level pre-purge: 9.42 Time: 11:56
		Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:
		Well EL (TOC): Well Mat: PVC

WEATHER

Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No	Precipitation in last 5 days: Yes / No
Rain: Yes / No	Fog: Yes / No		

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

TD	WL	X	() ²	X	0.0408 =	2.01	gallons in one well volume
<i>6.03</i>						6	gallons in 3 well volumes (Approx. 0.6 gal/ft) total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection: <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
11:59	1	6.76	18.6	41		550.9	L
12:00	2	6.71	18.7	45		556.7	L
12:02	4	6.77	18.8	43		590.1	L
12:03	6	6.77	18.9	37		596.1	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 10.09	Time: 12:20
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Appearance of Sample:

Bailer: Disposable	Pump: 12V Submersible (1-2 gpm)
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DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: Poly	Soil: 8	Other: 8
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GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-1D
Project Location: 7360 Commerce Blvd. Cotati, California	Casing Diameter: 2"	Well Depth from TOC (BP): 58.50 Well Depth from TOC (AP):
Date: December 15, 2005	Top of Screen:	Initial Well Depth:
Sampled by (print and sign): Brian Hasik <i>(Signature)</i>	Product Thickness in inches:	Q
	Water Level from TOC:	11.70 Time: 9:13
	Water Level pre-purge:	11.87 Time: 10:21
	Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	
Well EL (TOC):	Well Mat: PVC	

WEATHER

Wind: Yes / No ○	Clouds: Yes / No ○	Sun: Yes / No ○	Precipitation in last 5 days: Yes / No ○
Rain: Yes / No ○	Fog: Yes / No ○		

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

TD	WL	X	2	X	0.0408	=	9.47	gallons in one well volume
						22.40	gallons in 3 well volumes (Approx. 0.6 gal/ft)	23 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
10:28	1	7.20	17.6	33		710.4	L
10:31	5	6.99	18.0	-50		733.3	L
10:34	10	6.97	18.1	-64		783.0	L
10:36	15	6.96	18.1	-54		909.9	L
10:39	20	6.98	18.1	-49		822.3	L
10:41	23	6.96	18.2	-47		926.0	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 11.87	Time: 10:45
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Appearance of Sample:

Bailer: Disposable	Pump: 12V Submersible (1-2 gpm)
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DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: Poly	Soil: Q	Other: R
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GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-2D	
Project Location: 7360 Commerce Blvd. Cotati, California		Casing Diameter: 2"	
		Well Depth from TOC (BP): 56.50 Well Depth from TOC (AP):	
Date: December 15, 2005		Top of Screen: Initial Well Depth:	
Sampled by (print and sign): Brian Hasik <i>(B. Hasik)</i>		Product Thickness in inches:	
		Water Level from TOC: 11.21	Time: 9:08
Notes: slight odor		Water Level pre-purge: 11.21	Time: 9:37
		Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	
		Well EL (TOC):	Well Mat: PVC

WEATHER

Wind: Yes / No	Clouds: Yes / No	Sun: Yes / No	Precipitation in last 5 days: Yes / No
Rain: Yes / No	Fog: Yes / No		

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

TD	WL	X	2	X	0.0408	=	7.25	gallons in one well volume
						21.74	gallons in 3 well volumes (Approx. 0.6 gal/ft)	22 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
9:44	1	6.98	18.1	2		855.8	L
9:47	5	6.93	18.8	-17		853.8	L
9:50	10	6.94	18.9	-19		851.7	L
9:54	15	6.96	18.6	-19		872.5	L
9:59	22	7.03	19.0	-17		852.4	L

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 11.24 Time: 2:30

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: poly Soil: Other: 8

GROUNDWATER FIELD SAMPLING FORM

WELL INFORMATION

Project Number/Name: 1222.01 Royal Coach Car Wash		Well Number: MW-3D	
Project Location: 7360 Commerce Blvd. Cotati, California		Casing Diameter: 2"	
		Well Depth from TOC (BP): 56.00 Well Depth from TOC (AP):	
Date: December 15, 2005		Top of Screen: Initial Well Depth:	
Sampled by (print and sign): Brian Hasik 		Product Thickness in inches: 0.5	
		Water Level from TOC: 13.01	Time: 9:11
Notes:		Water Level pre-purge: 13.01	Time: 10:02
		Well Type: <input checked="" type="checkbox"/> Monitor <input type="checkbox"/> Extraction <input type="checkbox"/> Other:	
		Well EL (TOC):	Well Mat: PVC

WEATHER

Wind: Yes / <input checked="" type="radio"/> No	Clouds: Yes / <input checked="" type="radio"/> No	Sun: Yes / <input checked="" type="radio"/> No	Precipitation in last 5 days: Yes / <input checked="" type="radio"/> No
Rain: Yes / <input checked="" type="radio"/> No	Fog: Yes / <input checked="" type="radio"/> No		

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

(TD - WL) X (Dia. Inches)² X 0.0408 = 6.88 gallons in one well volume

20.64 gallons in 3 well volumes (Approx. 0.6 gal/ft) 21 total gallons purged

FIELD MEASUREMENTS DURING PURGING

Stable Field Parameters Required Prior to Sample Collection: <10% pH and EC change, <0.2°C temp. change

Time	Gallons	pH	TEMP °C	ORP	DO mg/L	EC mS / µS	Turbidity H/M/L
10:05	1	7.27	17.5	6		729.8	1
10:08	5	7.01	18.1	28		748.1	1
10:12	10	6.99	18.1	41		756.1	1
10:15	15	6.98	18.1	62		755.9	1
10:19	21	6.00	18.1	68		757.0	1

Minimum of 5 gallons or 0.6 gal/ft. Of water in casing - whichever is greater and field parameters must be stable.

Water Level Before Sampling: 13.00 Time: 22:40

Appearance of Sample:

Bailer: Disposable Pump: 12V Submersible (1-2 gpm)

DECON. METHOD: TSP or Liquinox (phosphate free) Wash / Double Rinse

NUMBER OF DRUMS GENERATED: Water: poly Soil: Other: 0

APPENDIX B

Appendix B: Historical Groundwater Flow Direction and Gradient Data - Shallow Wells

Date	Monitoring Well ID	TOC Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient
03/13/01	MW-1	97.31	10.44	86.87	Variable
	MW-2	97.19	9.55	87.64	
	MW-3	96.95	9.09	87.86	
	MW-4	96.59	9.00	87.59	
	MW-5	96.97	9.78	87.19	
	MW-6	97.17	8.45	88.72	
06/26/01	MW-1	97.31	16.90	80.41	Variable
	MW-2	97.19	16.40	80.79	
	MW-3	96.95	16.40	80.55	
	MW-4	96.59	15.86	80.73	
	MW-5	96.97	16.11	80.86	
	MW-6	97.17	15.11	82.06	
07/31/01	MW-1	97.31	19.72	77.59	Variable
	MW-2	97.19	18.99	78.20	
	MW-3	96.95	18.99	77.96	
	MW-4	96.59	17.40	79.19	
	MW-5	96.97	19.50	77.47	
	MW-6	97.17	17.70	79.47	
08/23/01	MW-1	97.31	20.88	76.43	S10°W i = 0.02
	MW-2	97.19	20.11	77.08	
	MW-3	96.95	18.51	78.44	
	MW-4	96.59	20.55	76.04	
	MW-5	96.97	17.32	79.65	
	MW-6	97.17	19.26	77.91	



Appendix B continued

Date	Monitoring Well ID	TOC Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient
09/24/01	MW-1	97.31	21.80	75.51	Variable
	MW-2	97.19	21.03	76.16	
	MW-3	96.95	20.06	76.89	
	MW-4	96.59	17.57	79.02	
	MW-5	96.97	21.47	75.50	
	MW-6	97.17	20.16	77.01	
10/24/01	MW-1	97.31	NM	NM	Variable
	MW-2	97.19	21.46	75.73	
	MW-3	96.95	20.82	76.13	
	MW-4	96.59	18.16	78.43	
	MW-5	96.97	NM	NM	
	MW-6	97.17	20.85	76.32	
11/19/01	MW-1*	99.52	NM	<77.67	N65°E i = 0.03
	MW-2	99.39	18.51	80.88	
	MW-3	99.18	17.99	81.19	
	MW-4	98.79	17.28	81.51	
	MW-5	99.16	20.08	79.08	
	MW-6	99.42	18.96	80.46	
Note: Additional groundwater flow direction data is available prior to June 26, 2001. * Insufficient water in well to measure water level.					



Appendix B continued

Date	Monitoring Well ID	TOC Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient
12/21/01	MW-1	99.52	13.79	85.73**	Due North i = 0.03
	MW-2	99.39	10.61	88.78	
	MW-3	99.18	10.08	89.10	
	MW-4	98.79	11.39	88.40	
	MW-5	99.16	12.89	86.27	
	MW-6	99.42	9.10	90.32	
01/23/02	MW-1	99.52	9.52	90.00	Due North i = 0.02
	MW-2	99.39	9.31	90.08	
	MW-3	99.18	8.62	90.56	
	MW-4	98.79	9.10	89.69	
	MW-5	99.16	9.57	89.59	
	MW-6	99.42	8.36	91.06	
03/27/02	MW-1	99.52	9.67	89.85	Northerly i = 0.02
	MW-2	99.39	8.69	90.70	
	MW-3	99.18	8.35	90.83	
	MW-4	98.79	8.68	90.11	
	MW-5	99.16	9.52	89.64	
	MW-6	99.42	7.80	91.62	

** Water level data was not used to calculate flow direction and gradient.



Appendix B continued

Date	Monitoring Well ID	TOC Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient
6/28/02	MW-1	99.52	14.48	85.04	Northerly i = 0.02
	MW-2	99.39	13.64	85.75	
	MW-3	99.18	12.40	86.78	
	MW-4	98.79	13.80	84.99	
	MW-5	99.16	12.75	86.41	
	MW-6	99.42	13.10	86.32	
10/02/02	MW-1	99.52	20.65	78.87	Northerly i = 0.01
	MW-2	99.39	20.41	78.98	
	MW-3	99.18	19.59	79.60	
	MW-4	98.79	17.93	80.86	
	MW-5	99.16	20.23	78.93	
	MW-6	99.42	19.50	79.92	
	MW-7	98.86	18.92	79.94	
2/07/03	MW-1	99.52	10.03	89.49	Northerly i = 0.02
	MW-2	99.39	9.88	89.51	
	MW-3	99.18	9.57	89.61	
	MW-4	98.79	9.46	89.33	
	MW-5	99.16	9.68	89.48	
	MW-6	99.42	8.55	90.87	
	MW-7	98.86	8.49	90.37	



Appendix B continued

Date	Monitoring Well ID	TOC Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient
05/07/03	MW-1	99.52	9.11	90.41	Northerly i = 0.02
	MW-2	99.39	8.17	91.22	
	MW-3	99.18	7.52	91.66	
	MW-4	98.79	7.77	91.02	
	MW-5	99.16	9.12	90.04	
	MW-6	99.42	6.89	92.53	
	MW-7	98.86	7.00	91.86	
08/14/03	MW-1	99.52	16.80	82.72	North Easterly i = 0.03
	MW-2	99.39	16.35	83.03	
	MW-3	99.18	15.96	83.22	
	MW-4	98.79	16.01	82.78	
	MW-5	99.16	16.00	83.16	
	MW-6	99.42	14.85	84.57	
	MW-7	98.86	15.04	83.82	
11/18/03	MW-1	99.52	20.70	78.82	North Westerly i = varies
	MW-2	99.39	20.45	78.94	
	MW-3	99.18	17.38	81.80	
	MW-4	98.79	17.49	81.30	
	MW-5	99.16	19.09	80.07	
	MW-6	99.42	18.60	80.82	
	MW-7	98.86	18.56	80.30	



Appendix B continued

Date	Monitoring Well ID	TOC Elevation (feet - msl)	Depth to Groundwater (feet)	Water Level Elevation (feet - msl)	Groundwater Flow Direction & Gradient
02/24/04	MW-1	99.52	8.28	91.24	Northerly i = 0.02
	MW-2	99.39	7.24	92.15	
	MW-3	99.18	6.99	92.19	
	MW-4	98.79	6.83	91.96	
	MW-5	99.16	9.11	90.05	
	MW-6	99.42	5.93	93.49	
	MW-7	98.86	6.18	92.68	
	MW-8	99.09	9.35	89.74	
05/26/04	MW-1	99.52	11.10	88.42	Northwesterly i = 0.01
	MW-2	99.39	10.03	89.36	
	MW-3	99.18	9.50	89.68	
	MW-4	98.79	10.55	88.24	
	MW-5	99.16	10.40	88.76	
	MW-6	99.42	10.60	88.82	
	MW-7	98.86	10.22	88.64	
	MW-8	99.09	11.29	87.80	
	MW-9	99.42	10.53	89.39	
08/11/04	MW-1	99.52	13.42	86.10	Northwesterly i = 0.01
	MW-2	99.39	12.05	87.34	
	MW-3	99.18	11.03	88.15	
	MW-4	98.79	12.66	86.13	
	MW-5	99.16	12.57	86.59	
	MW-6	99.42	12.47	86.95	
	MW-7	98.86	11.98	86.88	
	MW-8	99.09	13.86	85.23	
	MW-9	99.42	12.30	87.12	



Appendix B continued

Date	Monitoring Well ID	TOC Elevation (feet - msl)	Depth to Groundwater (feet)	Water Level Elevation (feet - msl)	Groundwater Flow Direction & Gradient
11/17/04	MW-1	99.52	12.45	87.07	Northwesterly i = 0.01
	MW-2	99.39	11.97	87.42	
	MW-3	99.18	10.40	88.78	
	MW-4	98.79	11.90	86.89	
	MW-5	99.16	11.43	87.73	
	MW-6	99.42	11.99	87.43	
	MW-7	98.86	11.49	87.37	
	MW-8	99.09	14.38	84.71	
	MW-9	99.42	11.86	87.56	
02/17/05	MW-1	99.52	7.79	91.73	Northeasterly i = 0.02
	MW-2	99.39	7.47	91.92	
	MW-3	99.18	7.25	91.90	
	MW-4	98.79	6.78	92.01	
	MW-5	99.16	9.02	90.14	
	MW-6	99.42	6.60	92.82	
	MW-7	98.86	6.29	92.57	
	MW-8	99.09	8.96	90.13	
	MW-9	99.42	6.50	92.92	



Appendix B continued

Date	Monitoring Well ID	TOC Elevation (feet - msl)	Depth to Groundwater (feet)	Water Level Elevation (feet - msl)	Groundwater Flow Direction & Gradient (i)
05/25/05	MW-1	99.52	6.48	93.04	Northeasterly i = 0.02
	MW-2	99.39	5.90	93.49	
	MW-3	99.18	6.29	92.89	
	MW-4	98.79	5.31	93.48	
	MW-5	99.16	8.60	90.56	
	MW-6	99.42	5.44	93.98	
	MW-7	98.86	5.12	93.74	
	MW-8	99.09	7.98	91.11	
	MW-9	99.42	5.45	93.97	
08/30/05	MW-1	99.52	10.52	89.00	Northeasterly i = 0.007
	MW-2	99.39	10.40	88.99	
	MW-3	99.18	9.32	89.96	
	MW-4	98.79	10.10	88.69	
	MW-5	99.16	10.10	89.06	
	MW-6	99.42	10.45	88.97	
	MW-7	98.86	9.95	88.91	
	MW-8	99.09	10.63	88.46	
	MW-9	99.42	10.43	88.99	



Appendix B continued

Date	Monitoring Well ID	TOC Elevation (feet - msl)	Depth to Groundwater (feet)	Water Level Elevation (feet - msl)	Groundwater Flow Direction & Gradient (i)
12/15/05	MW-1	99.52	9.26	90.26	Northwesterly i = 0.01
	MW-2	99.39	9.05	90.34	
	MW-3	99.18	8.06	91.12	
	MW-4	98.79	9.16	89.63	
	MW-5	99.16	9.68	89.48	
	MW-6	99.42	9.75	89.67	
	MW-7	98.86	8.85	90.01	
	MW-8	99.09	10.67	88.42	
	MW-9	99.42	9.42	90.00	



APPENDIX C

(Continued)

Appendix C: Historical Groundwater Flow Direction and Gradient Data - Deep Wells

Date	Monitoring Well ID	TOC Elevation (feet - msl)	Depth to Groundwater (feet)	Water Level Elevation (feet - msl)	Groundwater Flow Direction & Gradient (i)
11/19/04	MW-1D	99.11	15.51	83.60	N 75°W i = 0.03
	MW-2D	98.45	15.12	83.33	
	MW-3D	98.89	17.32	81.57	
02/17/05	MW-1D	99.11	10.40	88.71	N 80° W i = 0.02
	MW-2D	98.45	10.12	88.33	
	MW-3D	98.89	11.85	87.04	
05/25/05	MW-1D	99.11	9.14	89.97	N 80° W i = 0.02
	MW-2D	98.45	8.92	89.53	
	MW-3D	98.89	10.45	88.44	
08/30/05	MW-1D	99.11	13.32	85.79	N 80° W i = 0.02
	MW-2D	98.45	13.11	85.34	
	MW-3D	98.89	14.60	84.29	
12/15/05	MW-1D	99.11	11.84	87.27	N 75° W i = 0.02
	MW-2D	98.45	11.21	87.24	
	MW-3D	98.89	13.01	85.88	



APPENDIX D



Analytical Sciences

Report Date: December 30, 2005

Laboratory Report

Lee Hurvitz
Trans Tech Consultants
930 Shiloh Road, Building 44, Suite J
Windsor, CA 95492

Project Name: **Royal Coach Car Wash** **1222.01**
Lab Project: **5121602**

This 19 page report of analytical data has been reviewed and approved for release.

A handwritten signature in blue ink that reads "Mark A. Valentini".

Mark A. Valentini, Ph.D.

Laboratory Director



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-01	MW-1	Gasoline	4700	250

Date Sampled:	12/15/05	Date Analyzed:	12/16/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-02	MW-2	Gasoline	ND	50

Date Sampled:	12/15/05	Date Analyzed:	12/16/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-03	MW-3	Gasoline	ND	50

Date Sampled:	12/15/05	Date Analyzed:	12/16/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-04	MW-4	Gasoline	5400	250

Date Sampled:	12/15/05	Date Analyzed:	12/19/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-05	MW-5	Gasoline	ND	50
Date Sampled:	12/15/05	Date Analyzed:	12/16/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-06	MW-6	Gasoline	ND	50
Date Sampled:	12/15/05	Date Analyzed:	12/16/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-07	MW-7	Gasoline	43000	1000
Date Sampled:	12/15/05	Date Analyzed:	12/16/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-08	MW-8	Gasoline	71	50
Date Sampled:	12/15/05	Date Analyzed:	12/16/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-09	MW-9	Gasoline	ND	50
Date Sampled:	12/15/05	Date Analyzed:	12/16/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-10	MW-1D	Gasoline	ND	50
Date Sampled:	12/15/05	Date Analyzed:	12/16/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-11	MW-2D	Gasoline	ND	50
Date Sampled:	12/15/05	Date Analyzed:	12/16/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-12	MW-3D	Gasoline	ND	50
Date Sampled:	12/15/05	Date Analyzed:	12/16/05	QC Batch: B000419
Date Received:	12/16/05	Method:	EPA 8015	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-01	MW-1	Benzene	670	10
		Toluene	ND	10
		Ethylbenzene	170	10
		m,p-Xylene	ND	10
		o-Xylene	ND	10
		1,2-Dibromoethane (EDB)	ND	10
		1,2-Dichloroethane (EDC)	ND	10
		Tertiary Butyl Alcohol (TBA)	ND	250
		Methyl tert-Butyl Ether (MTBE)	170	10
		Di-isopropyl Ether (DIPE)	ND	10
		Ethyl tert-Butyl Ether (ETBE)	ND	10
		Tert-Amyl Methyl Ether (TAME)	37	10
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.2	106	70-130
Toluene-d8		20.6	103	70-130
4-Bromofluorobenzene		21.2	106	70-130

Date Sampled: 12/15/05 Date Analyzed: 12/22/05 QC Batch: B000422
Date Received: 12/16/05 Method: EPA 8260B



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-02	MW-2	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.8	104	70-130
Toluene-d8		19.5	98	70-130
4-Bromofluorobenzene		21.3	106	70-130

Date Sampled:	12/15/05	Date Analyzed:	12/22/05	QC Batch: B000422
Date Received:	12/16/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-03	MW-3	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.2	106	70-130
Toluene-d8		19.6	98	70-130
4-Bromofluorobenzene		21.0	105	70-130

Date Sampled:	12/15/05	Date Analyzed:	12/22/05	QC Batch: B000422
Date Received:	12/16/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-04	MW-4	Benzene	71	10
		Toluene	ND	10
		Ethylbenzene	490	10
		m,p-Xylene	35	10
		o-Xylene	11	10
		1,2-Dibromoethane (EDB)	ND	10
		1,2-Dichloroethane (EDC)	ND	10
		Tertiary Butyl Alcohol (TBA)	930	250
		Methyl tert-Butyl Ether (MTBE)	89	10
		Di-isopropyl Ether (DIPE)	ND	10
		Ethyl tert-Butyl Ether (ETBE)	ND	10
		Tert-Amyl Methyl Ether (TAME)	24	10
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.0	105	70-130
Toluene-d8		20.2	101	70-130
4-Bromofluorobenzene		20.5	102	70-130

Date Sampled:	12/15/05	Date Analyzed:	12/23/05	QC Batch: B000422
Date Received:	12/16/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-05	MW-5	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.3	106	70-130
Toluene-d8		20.7	104	70-130
4-Bromofluorobenzene		20.7	104	70-130

Date Sampled:	12/15/05	Date Analyzed:	12/22/05	QC Batch: B000422
Date Received:	12/16/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-06	MW-6	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.5	102	70-130
Toluene-d8		19.5	98	70-130
4-Bromofluorobenzene		20.4	102	70-130

Date Sampled:	12/15/05	Date Analyzed:	12/22/05	QC Batch: B000422
Date Received:	12/16/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-07	MW-7	Benzene	7000	100
		Toluene	6300	100
		Ethylbenzene	3400	100
		m,p-Xylene	4800	100
		o-Xylene	1700	100
		1,2-Dibromoethane (EDB)	ND	100
		1,2-Dichloroethane (EDC)	ND	100
		Tertiary Butyl Alcohol (TBA)	ND	2500
		Methyl tert-Butyl Ether (MTBE)	ND	100
		Di-isopropyl Ether (DIPE)	ND	100
		Ethyl tert-Butyl Ether (ETBE)	ND	100
		Tert-Amyl Methyl Ether (TAME)	ND	100
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.6	103	70-130
Toluene-d8		20.6	103	70-130
4-Bromofluorobenzene		20.4	102	70-130

Date Sampled:	12/15/05	Date Analyzed:	12/23/05	QC Batch: B000422
Date Received:	12/16/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-08	MW-8	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	58	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	8.2	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.2	106	70-130
Toluene-d8		20.0	100	70-130
4-Bromofluorobenzene		21.0	105	70-130

Date Sampled:	12/15/05	Date Analyzed:	12/22/05	QC Batch: B000422
Date Received:	12/16/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-09	MW-9	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.4	102	70-130
Toluene-d8		20.3	102	70-130
4-Bromofluorobenzene		21.0	105	70-130

Date Sampled:	12/15/05	Date Analyzed:	12/22/05	QC Batch: B000422
Date Received:	12/16/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-10	MW-1D	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	22	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	1.9	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.8	104	70-130
Toluene-d8		20.0	100	70-130
4-Bromofluorobenzene		21.1	106	70-130

Date Sampled: 12/15/05 Date Analyzed: 12/22/05 QC Batch: B000422
Date Received: 12/16/05 Method: EPA 8260B



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-11	MW-2D	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	2.1	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.8	104	70-130
Toluene-d8		20.0	100	70-130
4-Bromofluorobenzene		20.4	102	70-130

Date Sampled:	12/15/05	Date Analyzed:	12/22/05	QC Batch: B000422
Date Received:	12/16/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5121602-12	MW-3D	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	3.9	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.7	104	70-130
Toluene-d8		19.4	97	70-130
4-Bromofluorobenzene		20.5	102	70-130

Date Sampled:	12/15/05	Date Analyzed:	12/22/05	QC Batch: B000422
Date Received:	12/16/05	Method:	EPA 8260B	



Quality Assurance Report

TPH Gasoline in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000419 - EPA 5030 GC

Blank (B000419-BLK1)		Prepared & Analyzed: 12/16/05							
Gasoline	ND	50	ug/L						
Matrix Spike (B000419-MS1)		Source: 5121602-02			Prepared & Analyzed: 12/16/05				
Benzene	9.89	0.50	ug/L	10.0	ND	99	70-130		
Toluene	10.3	0.50	ug/L	10.0	ND	103	70-130		
Ethylbenzene	10.3	0.50	ug/L	10.0	ND	103	70-130		
Xylenes	31.5	1.5	ug/L	30.0	ND	105	70-130		
Matrix Spike Dup (B000419-MSD1)		Source: 5121602-02			Prepared & Analyzed: 12/16/05				
Benzene	10.1	0.50	ug/L	10.0	ND	101	70-130	2	20
Toluene	10.5	0.50	ug/L	10.0	ND	105	70-130	2	20
Ethylbenzene	10.6	0.50	ug/L	10.0	ND	106	70-130	3	20
Xylenes	32.3	1.5	ug/L	30.0	ND	108	70-130	3	20



Volatile Hydrocarbons by GC/MS in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000422 - EPA 5030 GC/MS										
Blank (B000422-BLK1)										
Prepared: 12/19/05 Analyzed: 12/22/05										
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
m,p-Xylene	ND	1.0	ug/L							
o-Xylene	ND	1.0	ug/L							
1,2-Dibromoethane (EDB)	ND	1.0	ug/L							
1,2-Dichloroethane (EDC)	ND	1.0	ug/L							
Tertiary Butyl Alcohol (TBA)	ND	25	ug/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	ug/L							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/L							
<i>Surrogate: Dibromofluoromethane</i> 21.0 ug/L 20.0 105 70-130										
<i>Surrogate: Toluene-d8</i> 19.4 ug/L 20.0 97 70-130										
<i>Surrogate: 4-Bromofluorobenzene</i> 21.3 ug/L 20.0 106 70-130										
Matrix Spike (B000422-MS1)										
Source: 5121602-11 Prepared: 12/19/05 Analyzed: 12/22/05										
1,1-Dichloroethene (1,1-DCE)	22.1	1.0	ug/L	25.0	ND	88	70-130			
Benzene	23.3	1.0	ug/L	25.0	ND	93	70-130			
Trichloroethene (TCE)	22.9	1.0	ug/L	25.0	ND	92	70-130			
Toluene	22.9	1.0	ug/L	25.0	ND	92	70-130			
Chlorobenzene	21.5	1.0	ug/L	25.0	ND	86	70-130			
<i>Surrogate: Dibromofluoromethane</i> 20.7 ug/L 20.0 104 70-130										
<i>Surrogate: Toluene-d8</i> 19.8 ug/L 20.0 99 70-130										
<i>Surrogate: 4-Bromofluorobenzene</i> 21.1 ug/L 20.0 106 70-130										
Matrix Spike Dup (B000422-MSD1)										
Source: 5121602-11 Prepared: 12/19/05 Analyzed: 12/22/05										
1,1-Dichloroethene (1,1-DCE)	20.6	1.0	ug/L	25.0	ND	82	70-130	7	20	
Benzene	22.2	1.0	ug/L	25.0	ND	89	70-130	4	20	
Trichloroethene (TCE)	22.0	1.0	ug/L	25.0	ND	88	70-130	4	20	
Toluene	21.6	1.0	ug/L	25.0	ND	86	70-130	7	20	
Chlorobenzene	21.0	1.0	ug/L	25.0	ND	84	70-130	2	20	
<i>Surrogate: Dibromofluoromethane</i> 20.2 ug/L 20.0 101 70-130										
<i>Surrogate: Toluene-d8</i> 19.2 ug/L 20.0 96 70-130										
<i>Surrogate: 4-Bromofluorobenzene</i> 21.3 ug/L 20.0 106 70-130										



Notes and Definitions

M	The TPH Gasoline result consists primarily of Methyl Tertiary Butyl Ether (MTBE).
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference



Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
(707) 769-3128

Fax (707) 769-8093

CHAIN OF CUSTODY

CLIENT INFORMATION	
COMPANY NAME: TRANS TECH CONSULTANTS	CONTACT: Peggy Gilmore
ADDRESS: 930 SHILOH RD, BLDG 44, STE J	COMPANY NAME: Royal Oak Chemical
WINDSOR, CA 95492	ADDRESS: 2400 Park Rd.
CONTACT: [REDACTED]	Keefield, CA
PHONE#: (707) 575-8622	PHONE#: 94904
FAX #: (707) 837-7334	FAX #:

LAB PROJECT NUMBER: 5121602

TRANS TECH PROJECT NAME: Royal Oak Chemical	
TRANS TECH PROJECT NUMBER: 1222-01	
TURNAROUND TIME (check one)	
MOBILE LAB	SAME DAY
MOBILE LAB	48 HOURS
MOBILE LAB	5 DAYS
MOBILE LAB	24 HOURS
MOBILE LAB	72 HOURS
MOBILE LAB	NORMAL

GEO TRACKER EDF-X-Y-N
GLOBAL ID: T0609700361

COOLER TEMPERATURE
below 10°C
COC

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	#	PRESV. YES/NO	COMMENTS	LAB SAMPLE #
1	MW-1	9/15/05	3:40	W	3	X	X	5121602-01
2	MW-2		2:50					01
3	MW-3		3:00					03
4	MW-4		3:35					04
5	MW-5		3:45					05
6	MW-6		3:45					06
7	MW-7		3:45					07
8	MW-8		3:30					08
9	MW-9		2:20					09
10								
11								

PAGE 1 of 2

SIGNATURES

SAMPLED BY: BRIAN EAST

DATE: 12/16/05 TIME: 10:45

RELINQUISHED BY: [Signature]
SIGNATURE:

RECEIVED BY LABORATORY:
[Signature]
SIGNATURE:

DATE: 12/16/05 TIME: 10:45

Analytical Sciences
 P.O. Box 750336, Petaluma, CA 94975-0336
 110 Liberty Street, Petaluma, CA 94952
 (707) 769-3128
 Fax (707) 769-8093

CHAIN OF CUSTODY

CLIENT INFORMATION		BILLING INFORMATION	
COMPANY NAME: TRANS TECH CONSULTANTS	CONTACT: <u>Peggy Gilmore</u>	COMPANY NAME:	ADDRESS: <u>930 Shiloh Rd, Bldg 44, Ste J</u>
ADDRESS: <u>930 Shiloh Rd, Bldg 44, Ste J</u>	PHONE#:	ADDRESS:	PHONE#:
CONTACT: <u>Brian Habisik</u>	FAX #:	PHONE#:	FAX #:
WINDSOR, CA 95492			
PHONE#: (707) 575-8622			
FAX #: (707) 837-7334			

LAB PROJECT NUMBER: SI21602

TRANS TECH PROJECT NAME: <u>Rough Creek Coal Wash</u>	TRANS TECH PROJECT NUMBER: <u>12222.01</u>
GEOTRACKER EDF: <u>N</u>	GLOBAL ID: <u>TO609700361</u>
COOLER TEMPERATURE: <u>14°c</u>	
COC	

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	LAB SAMPLE #											
							COMMENTS											
1	MW-1D	12/15/02	2:45	W	3	Vdas	X											
2	MW-2D		2:30	L	1													
3	MW-3D		2:40	L	1													
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		

ANALYSIS

TOTAL LEAD																		
CAM 3T METALS /																		
5 LUFT METALS /																		
PESTICIDES / PCB'S																		
SM 5520F / EPA 418.1M																		
TRPH/TDS																		
SEMIVOLATILE																		
HYDROCARBONS																		
EPA 8010 / EPA 8260B																		
CHLORINATE																		
FUEL ADDITIVES																		
EPA 8280M																		
OXYGENATE																		
EPA 820B																		
EPA 2820 + PB SCAVENGERS																		
HYDROCARBONS																		
EPA 2820 FULL LIST																		
VOLTAGE																		
TPH DIESEL /																		
MOTOR OIL /																		
EPA 8015N / 10020																		
TPH/GAS/SLUDGE																		

 PAGE 2 OF 2
SIGNATURES

SAMPLED BY:

BRIAN HABSIK

 DATE: 12/16/02

 TIME: 0854

 RElinquished By: [Signature]

 Signature: [Signature]

RECEIVED BY LABORATORY:	<u>analytical sciences</u>
DATE:	<u>12/16/02</u>
TIME:	<u>0854</u>

APPENDIX E

Category	Definition	Example
1. <i>Geographic</i>	Refers to the location of the study area.	Location of the study area is described as being in the northern part of the state.
2. <i>Demographic</i>	Refers to the characteristics of the population.	The study area has a population of approximately 10,000 people.
3. <i>Socioeconomic</i>	Refers to the economic status of the population.	The median income in the study area is \$50,000 per year.
4. <i>Cultural</i>	Refers to the cultural values and beliefs of the population.	The study area has a strong emphasis on family and community.
5. <i>Political</i>	Refers to the political structure and representation of the study area.	The study area is represented by a single congressional district.
6. <i>Economic</i>	Refers to the economic activities and resources of the study area.	The study area has a diverse economy with agriculture, manufacturing, and services.
7. <i>Environmental</i>	Refers to the natural environment and its impact on the study area.	The study area is located near a major river system.
8. <i>Historical</i>	Refers to the historical events and figures associated with the study area.	The study area has a rich history with many landmarks and museums.
9. <i>Geological</i>	Refers to the geological features and processes of the study area.	The study area is located on a fault line.
10. <i>Political</i>	Refers to the political structure and representation of the study area.	The study area is represented by a single congressional district.

Appendix E: Historical Groundwater Analytical Data - Shallow Wells

Date	Well ID	TPH-g	B	T	E	X	MtBE	TBA	TAME
		µg/L							
`03/13/01	MW-1	2,800	370	0.81	83	<1.5	130	92	15
	MW-2	<50	<0.5	<0.5	<0.5	<1.5	1.1	<25	<0.50
	MW-3	<50	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<0.50
	MW-4	5,900	53	<0.5	310	100	1,700	<100	160
	MW-5	<50	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<0.50
	MW-6	<50	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<0.50
06/26/01	MW-1	3,700	660	1.4	95	6.2	140*	92	18
	MW-2	<50	<0.3	<0.3	<0.5	<0.5	3.3	<10	0.69
	MW-3	<50	<0.3	<0.3	<0.5	<0.5	0.76	<10	<0.50
	MW-4	2,400	25	2.3	86	18	540	110	86
	MW-5	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<10	<0.50
	MW-6	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<10	<0.50
09/24/01	MW-1	NS	NS	NS	NS	NS	NS	NS	NS
	MW-2	<50	<0.5	<0.5	<0.5	<1.5	1.2	<25	<1.0
	MW-3	<50	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<1.0
	MW-4	2,700	59	15	92	45	160	<120	17
	MW-5	<50	<0.5	<0.5	<0.5	<1.5	<20	<500	<20
	MW-6	NS	NS	NS	NS	NS	NS	NS	NS
12/21/01	MW-1	22,000	4,900	33	1,300	180	350*	99	36
	MW-2	<50	0.54	<0.3	<0.5	<0.5	1.6	<10	0.52
	MW-3	<50	1.2	<0.3	0.59	<0.5	0.85	<10	<0.50
	MW-4	1,500	9.8	0.49	12	5.5	43	20	4.7
	MW-5	<50	0.37	<0.3	0.58	0.90	<0.5	<10	<0.50
	MW-6	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<10	<0.50

Note = Additional groundwater analytical data is available prior to March 13, 2001.

< = Indicates the laboratory test method detection limit.

* = Additional oxygenated fuel additives detected.

NS = Not sampled.



Appendix E continued

Date	Well ID	TPH-g	B	T	E	X	MIBE	TBA	TAME
		µg/L							
03/27/02	MW-1	4,900	1,900	16	560	75	130	<100	18
	MW-2	<50	<0.5	<0.5	<0.5	<1.5	1.0	<25	<1.0
	MW-3	<50	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<1.0
	MW-4	420	8.2	3.3	1.5	6.4	17	<25	2.5
	MW-5	<50	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<1.0
	MW-6	<50	<0.5	<0.5	<0.5	<1.5	<1.0	<25	<1.0
06/28/02	MW-1	6,100	1,100	<5.0	380	33	150	<100	16
	MW-2	<50	<1.0	<1.0	<1.0	<1.0	1.0	<25	<1.0
	MW-3	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-4	2,700	260	3.7	99	79	950	<25	110
	MW-5	<50	4.3	<1.0	1.7	1.0	<1.0	<25	<1.0
	MW-6	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
10/02/02	MW-1	13,000	2,600	<25	680	26	280*	<500	<25
	MW-2	<50	<1.0	<1.0	<1.0	<1.0	1.6	<25	<1.0
	MW-3	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-4	3,100	75	3.1	6.9	16	260	<50	35
	MW-5	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-6	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-7	37,000	9,700	160	3,500	1,000	140	<2,500	<100
<p>< = Indicates the laboratory test method detection limit. * = Additional oxygenated fuel additives detected. NS = Not sampled.</p>									



Appendix E continued

Date	Well ID	TPH-g	B	T	E	X	MtBE	TBA	TAME
		µg/L							
02/07/03	MW-1	11,000	2,600	30	790	95	280	<500	47
	MW-2	<50	<1.0	<1.0	<1.0	<1.0	1.1	<25	<1.0
	MW-3	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-4	1,500	6.0	<2.0	<2.0	2.2	21*	<50	2.8
	MW-5	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-6	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-7	59,000	11,000	9,500	4,400	11,700	110	<2,500	<100
05/07/03	MW-1	9,400	1,700	<20	600	39	240	<500	33
	MW-2	<50	<1.0	<1.0	<1.0	<1.0	1.2	<25	<1.0
	MW-3	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-4	930	81	2.8	3.1	15	37	<25	3.8
	MW-5	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-6	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-7	65,000	11,000	8,800	4,900	11,900	140	<2,500	<100
08/14/03	MW-1	12,000	3,100	<20	1,100	30	310	<500	40
	MW-2	<50	<1.0	<1.0	<1.0	<1.0	1.1	<25	<1.0
	MW-3	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-4	1,500	190	2.2	20	59	680	510	76
	MW-5	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-6	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-7	51,000	8,600	2,400	3,900	4,600	<100	<2,000	<100
<p>< = Indicates the laboratory test method detection limit. * = Additional oxygenated fuel additives detected. NS = Not sampled.</p>									



Appendix E continued

Date	Well ID	TPH-g	B	T	E	X	MtBE	TBA	TAME
		µg/L							
11/18/03	MW-1	9,500	3,300	73	960	84	430	<1,000	71
	MW-2	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-3	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-4	2,500	83	<10	<10	19	170	<200	17
	MW-5	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-6	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-7	22,000	8,100	240	3,100	770	<100	<2,000	<100
02/24/04	MW-1	7,300	2,300	<50	680	59	340	<1,000	54
	MW-2	NS	NS	NS	NS	NS	NS	NS	NS
	MW-3	NS	NS	NS	NS	NS	NS	NS	NS
	MW-4	1,100	11	<1.0	<1.0	1.3	33	<25	3.6
	MW-5	NS	NS	NS	NS	NS	NS	NS	NS
	MW-6	NS	NS	NS	NS	NS	NS	NS	NS
	MW-7	46,000	8,600	6,800	4,100	10,100	<100	<2,500	<100
	MW-8	<50	<1.0	<1.0	<1.0	<1.0	35	<25	<1.0
05/26/04	MW-1	4,300	550	<5.0	120	6.5	190	<100	21
	MW-2	<50	<1.0	<1.0	<1.0	<1.0	1.1	<25	<1.0
	MW-3	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-4	1,100	75	<1.0	1.7	8.4	28	<25	2.5
	MW-5	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-6	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-7	28,000	9,300	5,500	4,500	8,400	<100	<2,500	<100
	MW-8	<50	<1.0	<1.0	<1.0	<1.0	34	<25	<1.0
	MW-9	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
< = Indicates the laboratory test method detection limit. * = Additional oxygenated fuel additives detected. NS = Not sampled.									



Appendix E continued

Date	Well ID	TPH-g	B	T	E	X	MtBE	TBA	TAME
		µg/L							
08/11/04	MW-1	6,800	1,200	<50	420	<50	280	<1,000	<50
	MW-2	NS	NS	NS	NS	NS	NS	NS	NS
	MW-3	NS	NS	NS	NS	NS	NS	NS	NS
	MW-4	2,700	420	<10	66	84	620	1,600	77
	MW-5	NS	NS	NS	NS	NS	NS	NS	NS
	MW-6	NS	NS	NS	NS	NS	NS	NS	NS
	MW-7	47,000	8,000	4,900	4,100	7,300	<100	<2,000	<100
	MW-8	<50	<1.0	<1.0	<1.0	<1.0	23	<25	<1.0
	MW-9	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
11/17/04	MW-1	7,600	1,700	<5.0	540	12	430	150	61
	MW-2	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-3	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-4	3,900	140	<10	230	67	480	950	57
	MW-5	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-6	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-7	42,000	8,900	7,300	4,600	9,200	100	<2,000	<100
	MW-8	72	<1.0	<1.0	<1.0	<1.0	160	94	8.6
	MW-9	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0

< = Indicates the laboratory test method detection limit.
 * = Additional oxygenated fuel additives detected.
 NS = Not sampled.



Appendix E continued

Date	Well ID	TPH-g	B	T	E	X	MIBE	TBA	TAME
		µg/L							
02/17/05	MW-1	20,000	4,700	<15*	2000	<25*	690	<500	<25
	MW-2	NS	NS	NS	NS	NS	NS	NS	NS
	MW-3	NS	NS	NS	NS	NS	NS	NS	NS
	MW-4	2,200	15	<6.0*	<10*	<10*	48	<200	<10
	MW-5	NS	NS	NS	NS	NS	NS	NS	NS
	MW-6	NS	NS	NS	NS	NS	NS	NS	NS
	MW-7	140,000	16,000	17,000	8,500	19,000	<50*	<1000	<50
	MW-8	<50	<0.30	<0.30	<0.50	<0.50	66	<10	<0.50
	MW-9	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<10	<0.50
05/25/05	MW-1	15,000	2,600	<15	1000	<25	630*	<500	88
	MW-2	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<10	<0.50
	MW-3	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<10	<0.50
	MW-4	780	42	<3.0	<5.0	<5.0	120*	960	9.9
	MW-5	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<10	<0.50
	MW-6	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<10	<0.50
	MW-7	95,000	10,000	13,000	5,200	14,000	110	<1000	<50
	MW-8	<50	<0.30	<0.30	<0.50	<0.50	6.5	<10	<0.50
	MW-9	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<10	<0.50

< = Indicates the laboratory test method detection limit.
 * = Additional oxygenated fuel additives detected.
 NS = Not sampled.



Appendix E continued

Date	Well ID	TPH-g	B	T	E	X	MtBE	TBA	TAME
		µg/L							
08/30/05	MW-1	6,200	1,200	<20	330	<20	190	<500	46
	MW-2	NS	NS	NS	NS	NS	NS	NS	NS
	MW-3	NS	NS	NS	NS	NS	NS	NS	NS
	MW-4	1,400	19	<1.0	3.8	18.2	53	1,300	11
	MW-5	NS	NS	NS	NS	NS	NS	NS	NS
	MW-6	NS	NS	NS	NS	NS	NS	NS	NS
	MW-7	43,000	7,600	5,500	4,300	7,100	<100	<2,500	<100
	MW-8	320	31	<1.0	<1.0	2.5	110	160	20
	MW-9	NS	NS	NS	NS	NS	NS	NS	NS

< = Indicates the laboratory test method detection limit.

NS = Not sampled.

12/15/05	MW-1	4,700	670	<10	170	<10	170	<250	37
	MW-2	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-3	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-4	5,400	71	<10	490	46	89	930	24
	MW-5	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-6	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0
	MW-7	43,000	7,000	6,300	3,400	6,500	<100	<2,500	<100
	MW-8	71*	31	<1.0	<1.0	<1.0	58	<25	8.2
	MW-9	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0

< = Indicates the laboratory test method detection limit.

NS = Not sampled.

* = TPH as gasoline result consists primarily of MtBE.

Note: Additional oxygenated fuel additives and lead scavengers not detected above the laboratory reporting limit.



APPENDIX F

APPENDIX F

APPENDIX F

APPENDIX F

APPENDIX F

Appendix F: Historical Groundwater Analytical Data - Deep Wells

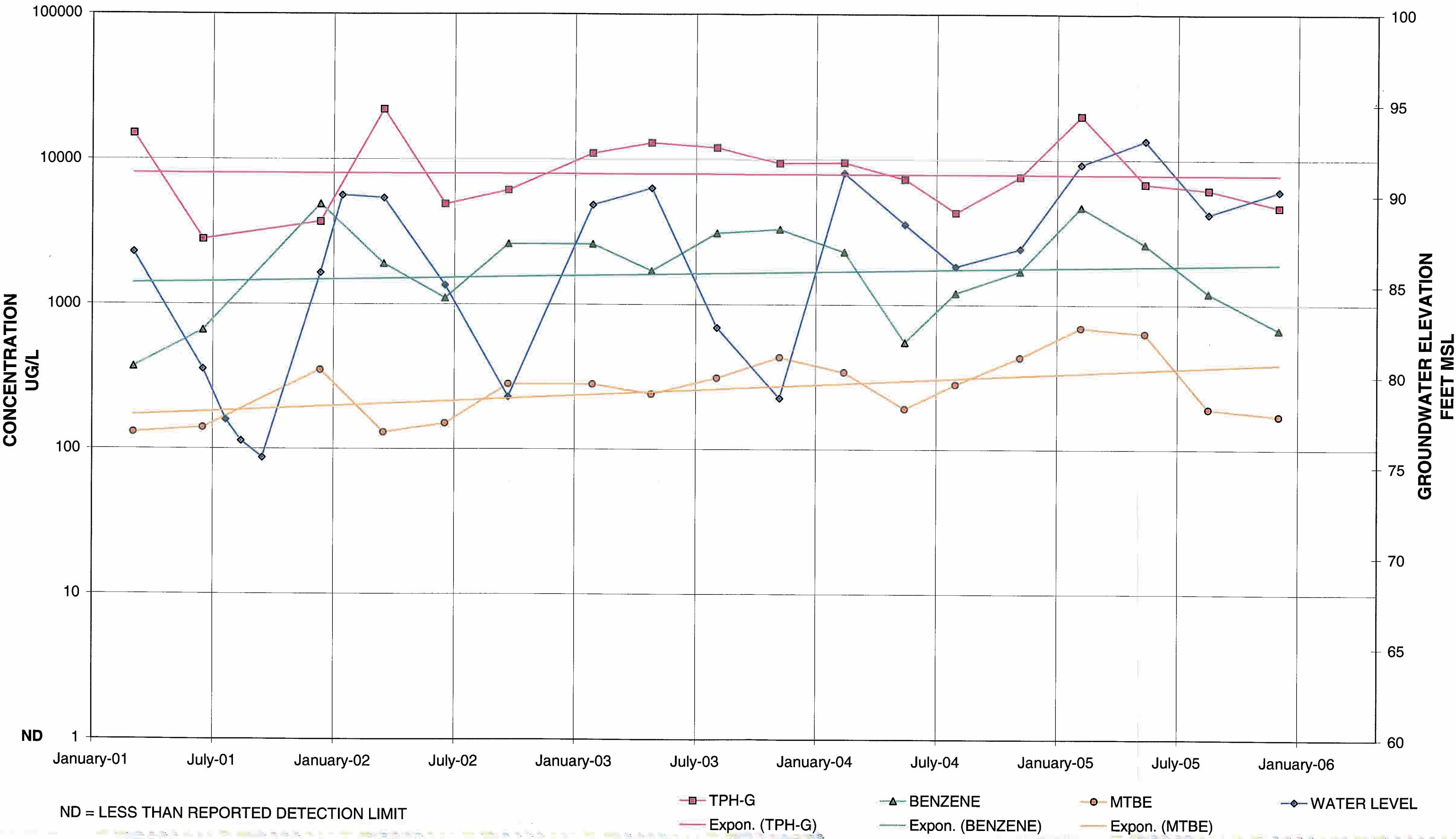
Date	Well ID	TPH-g	B	T	E	X	MtBE	TBA	TAME
		µg/L							
11/19/04	MW-1D	57	<1.0	<1.0	<1.0	<1.0	18	<25	1.1
	MW-2D	1,600	53	3.4	87	16.9	110	43	6.6
	MW-3D	<50	<1.0	<1.0	<1.0	<1.0	84	<25	5.9
02/17/05	MW-1D	<50	<0.30	<0.30	<0.50	<0.50	31	<10	<0.50
	MW-2D	<50	0.71	<0.30	<0.50	<0.50	52	<10	3.2
	MW-3D	<50	<0.30	<0.30	<0.50	<0.50	6.2*	<10	<0.50
05/25/05	MW-1D	<50	0.56	<0.30	<0.50	<0.50	41	<10	0.96
	MW-2D	<50	0.60	<0.30	<0.50	<0.50	2.1	<10	<0.50
	MW-3D	<50	0.64	<0.30	0.62	<0.50	12*	<10	0.71
08/30/05	MW-1D	95	<1.0	<1.0	<1.0	<1.0	23	<25	2.4
	MW-2D	<50	<1.0	<1.0	<1.0	<1.0	1.5	<25	<1.0
	MW-3D	<50	<1.0	<1.0	<1.0	<1.0	6.8	<25	<1.0
12/15/05	MW-1D	<50	<1.0	<1.0	<1.0	<1.0	22	<25	1.9
	MW-2D	<50	<1.0	<1.0	<1.0	<1.0	2.1	<25	<1.0
	MW-3D	<50	<1.0	<1.0	<1.0	<1.0	3.9	<25	<1.0

< = Indicates the laboratory test method detection limit.
Note: Additional oxygenated fuel additives and lead scavengers not detected above the laboratory reporting limit.

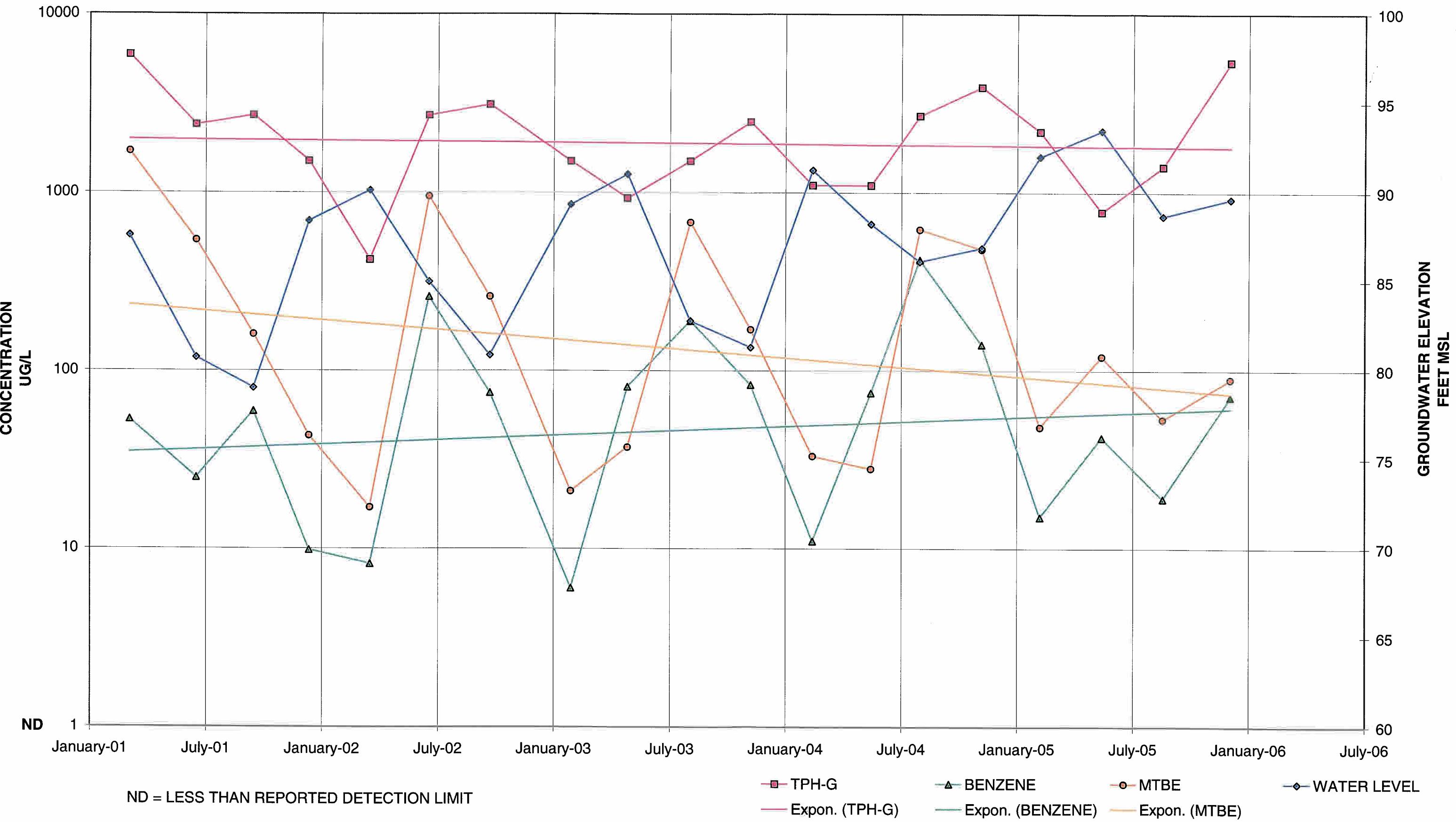


APPENDIX G

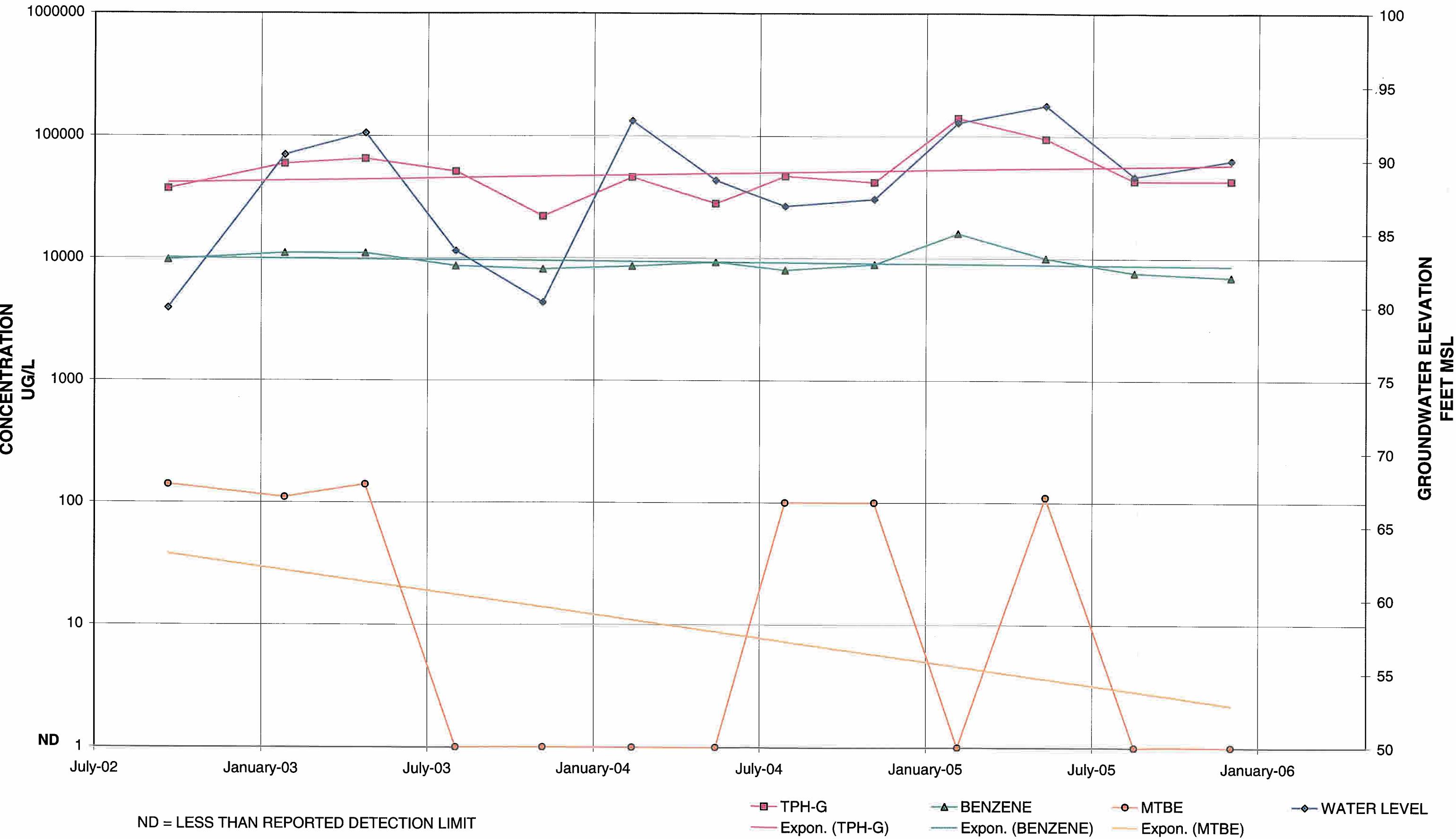
TIME vs. CONCENTRATION GRAPH MW-1
ROYAL COACH CAR WASH
7360 COMMERCE BLVD., ROHNERT PARK, CALIFORNIA



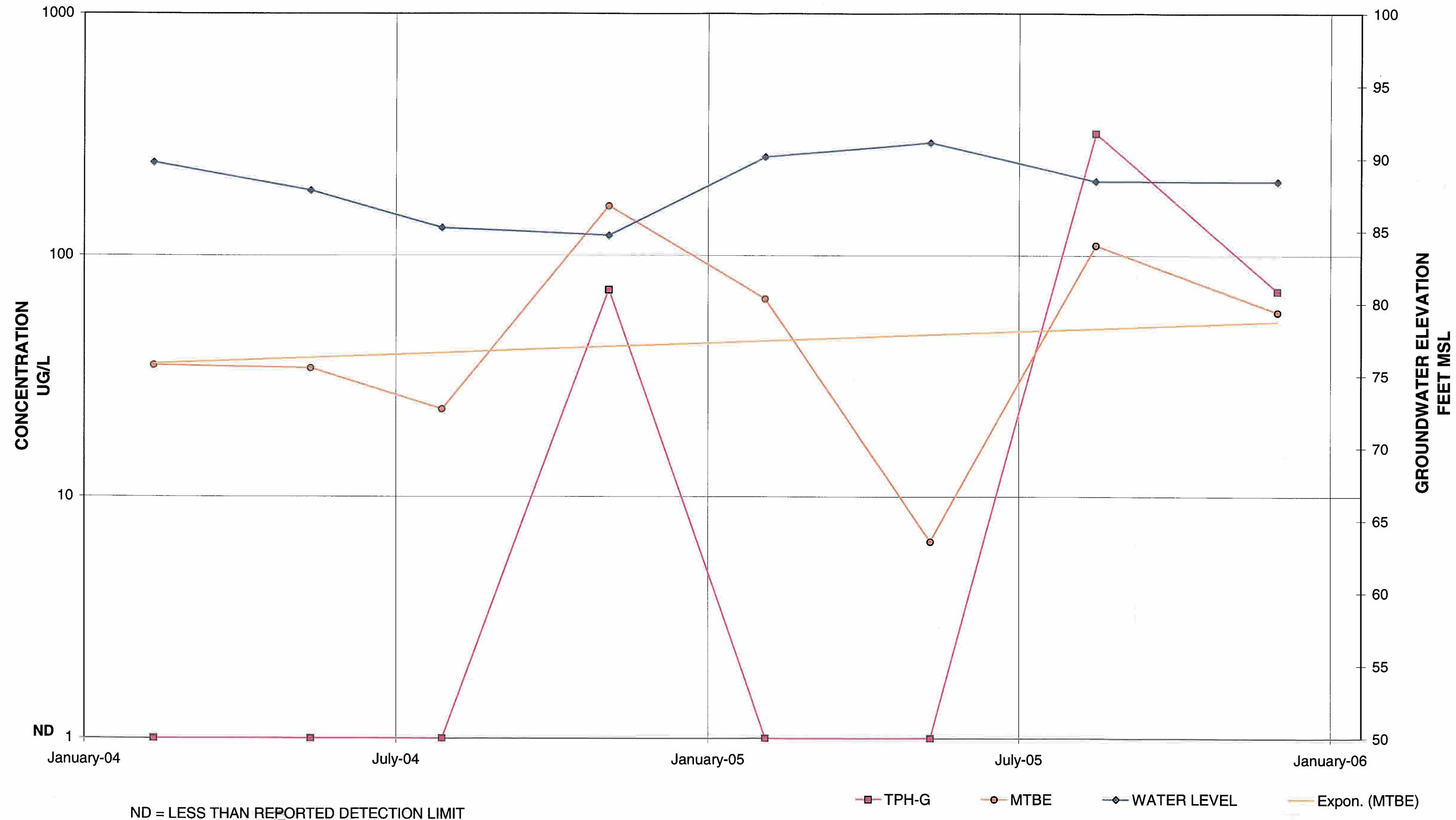
TIME vs. CONCENTRATION GRAPH MW-4
ROYAL COACH CAR WASH
7360 COMMERCE BLVD., ROHNERT PARK, CALIFORNIA



TIME vs. CONCENTRATION GRAPH MW-7
ROYAL COACH CAR WASH
7360 COMMERCE BLVD., ROHNERT PARK, CALIFORNIA



TIME vs. CONCENTRATION GRAPH MW-8
ROYAL COACH CAR WASH
7360 COMMERCE BLVD., ROHNERT PARK, CALIFORNIA



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4th Quarter 2005 Monitoring Report

**Royal Coach Car Wash
7360 Commerce Boulevard
Cotati, California**

**Dated February 8, 2006
Job No. 1222.01**

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